

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100325\
 Data File : VW032343.D
 Acq On : 03 Oct 2025 11:10
 Operator : SY/MD
 Sample : Q3262-04
 Misc : 4.70g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MOO-25-0282RE

Quant Time: Oct 04 05:00:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 02 21:24:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

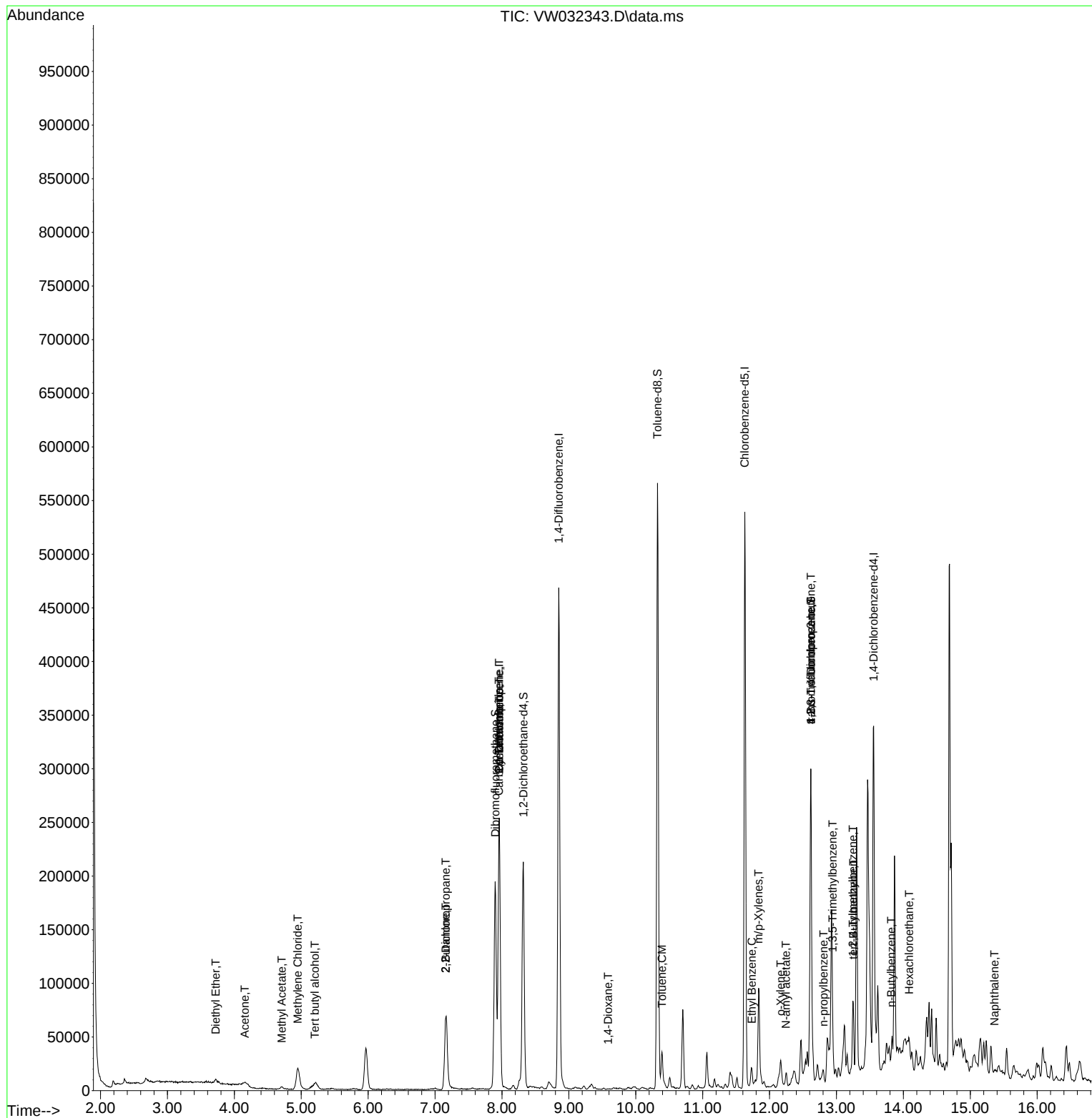
Internal Standards						
1) Pentafluorobenzene	7.959	168	173416	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	382768	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	288389	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	68361	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	172766	68.304	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 136.600%			
35) Dibromofluoromethane	7.898	113	141685	57.158	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 114.320%			
50) Toluene-d8	10.325	98	365416	39.941	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 79.880%			
62) 4-Bromofluorobenzene	12.617	95	97923	28.318	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 56.640%			
Target Compounds						Qvalue
8) Diethyl Ether	3.722	74	1429	1.099	ug/l	54
11) Tert butyl alcohol	5.204	59	12145	63.435	ug/l #	88
16) Acetone	4.155	43	3848	5.494	ug/l #	87
18) Methyl Acetate	4.710	43	4375	2.181	ug/l	94
20) Methylene Chloride	4.948	84	17099	2.272	ug/l	97
25) 2-Butanone	7.161	43	4424	4.638	ug/l #	68
26) 2,2-Dichloropropane	7.161	77	5132	2.405	ug/l #	52
31) Cyclohexane	7.959	56	5207	1.462	ug/l #	18
36) 1,1-Dichloropropene	7.959	75	15885	4.541	ug/l #	50
38) Carbon Tetrachloride	7.953	117	18865	5.730	ug/l #	16
49) 1,4-Dioxane	9.587	88	43	1.869	ug/l #	1
52) Toluene	10.392	92	12372	1.812	ug/l	98
67) Ethyl Benzene	11.733	91	10937	1.034	ug/l	94
68) m/p-Xylenes	11.837	106	13480	3.305	ug/l	96
69) o-Xylene	12.166	106	5320	1.395	ug/l	88
74) N-amyl acetate	12.245	43	2807	1.881	ug/l #	63
76) 1,2,3-Trichloropropane	12.617	75	50196	55.798	ug/l #	1
78) n-propylbenzene	12.806	91	9764	1.671	ug/l	100
80) 1,3,5-Trimethylbenzene	12.940	105	12021	2.972	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.617	75	50196	141.353	ug/l #	5
83) tert-Butylbenzene	13.251	119	5107	1.539	ug/l #	51
84) 1,2,4-Trimethylbenzene	13.245	105	40690	9.895	ug/l	100
89) n-Butylbenzene	13.818	91	5126	1.248	ug/l #	76
90) Hexachloroethane	14.086	117	790	1.048	ug/l #	17
95) Naphthalene	15.360	128	5381	1.811	ug/l #	89

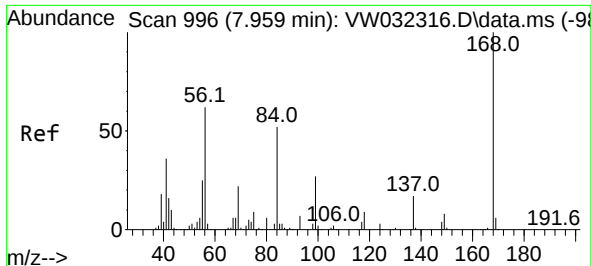
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

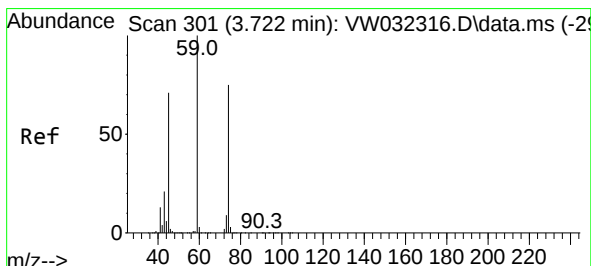
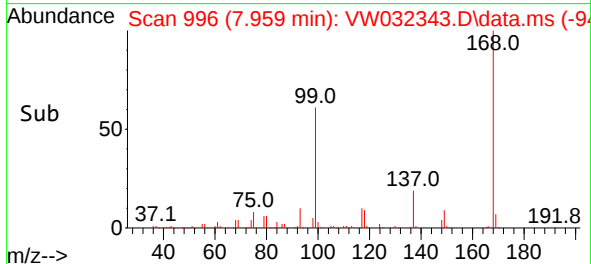
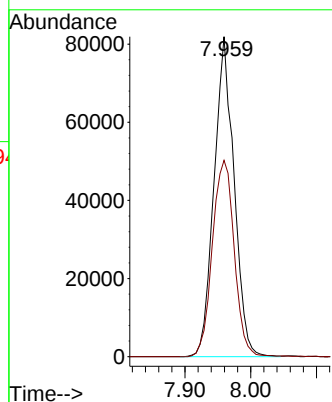
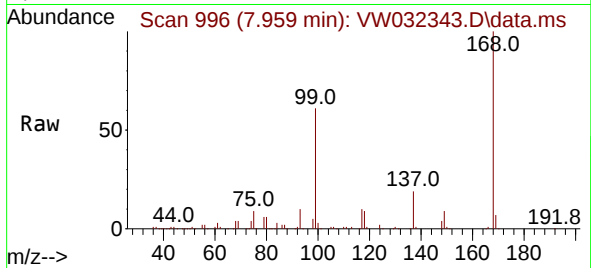




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

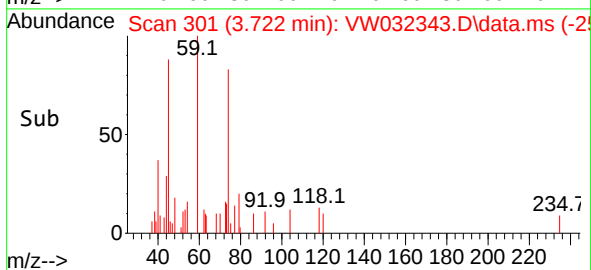
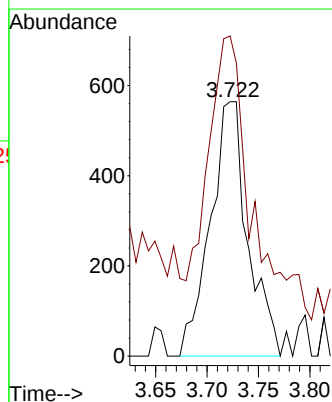
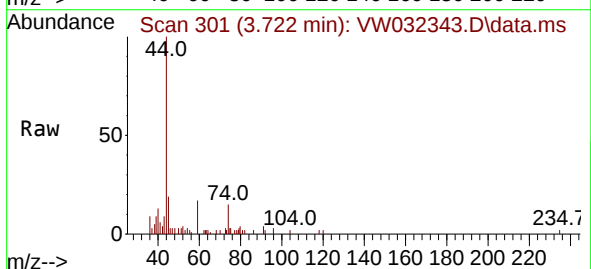
Instrument :
MSVOA_W
ClientSampleId :
MOO-25-0282RE

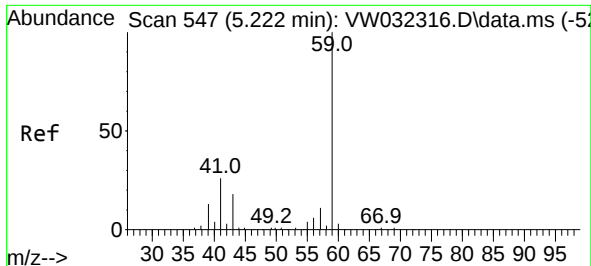
Tgt Ion:168 Resp: 173416
Ion Ratio Lower Upper
168 100
99 61.3 49.3 73.9



#8
Diethyl Ether
Concen: 1.099 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.006 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

Tgt Ion: 74 Resp: 1429
Ion Ratio Lower Upper
74 100
45 128.9 43.1 129.4

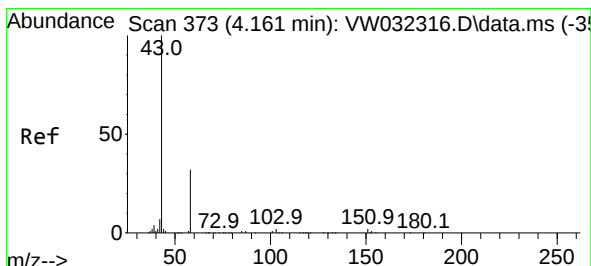
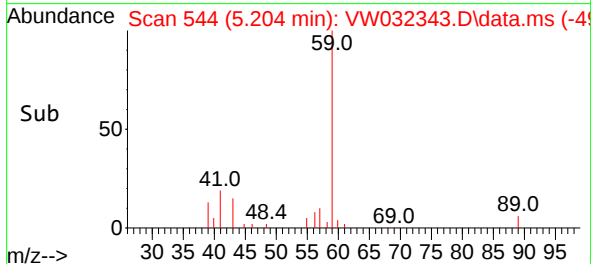
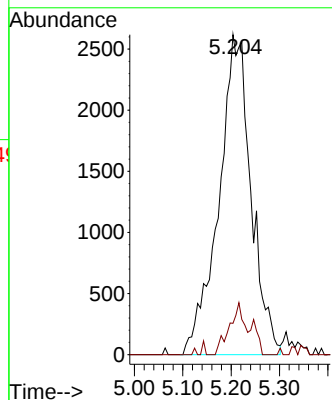
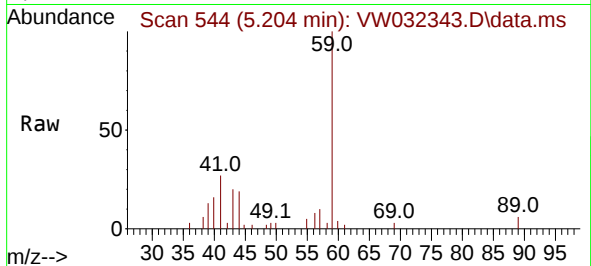




#11
Tert butyl alcohol
Concen: 63.435 ug/l
RT: 5.204 min Scan# 54
Delta R.T. -0.018 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

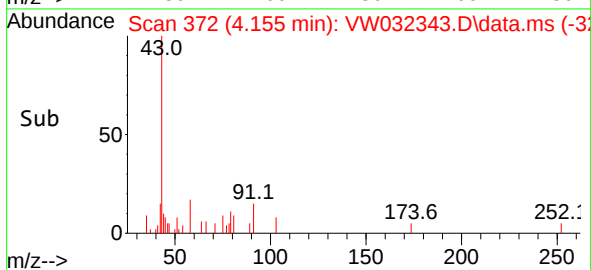
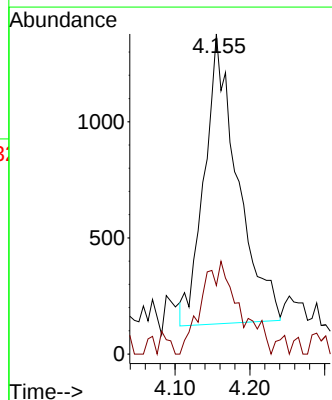
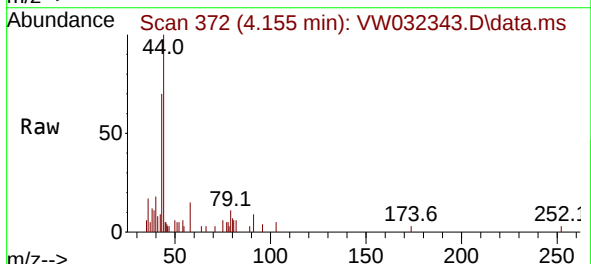
Instrument :
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MOO-25-0282RE

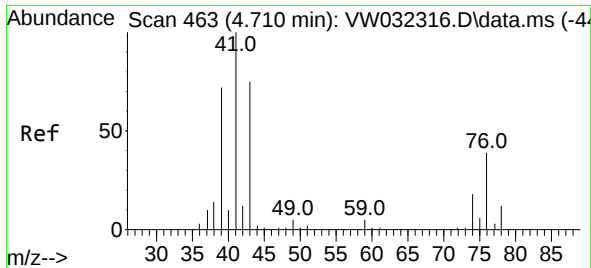
Tgt Ion: 59 Resp: 12145
Ion Ratio Lower Upper
59 100
57 7.5 9.8 14.6#



#16
Acetone
Concen: 5.494 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

Tgt Ion: 43 Resp: 3848
Ion Ratio Lower Upper
43 100
58 24.2 25.3 37.9#

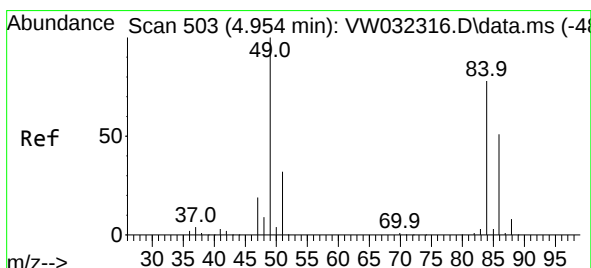
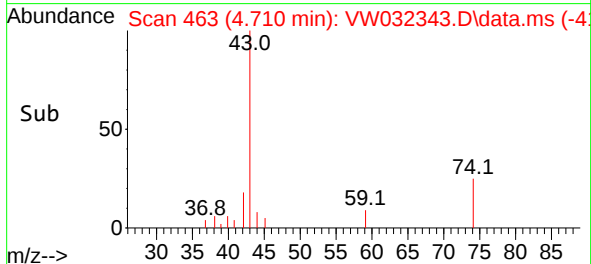
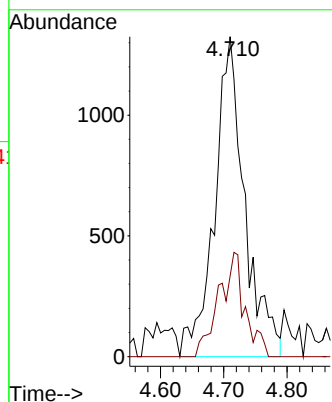
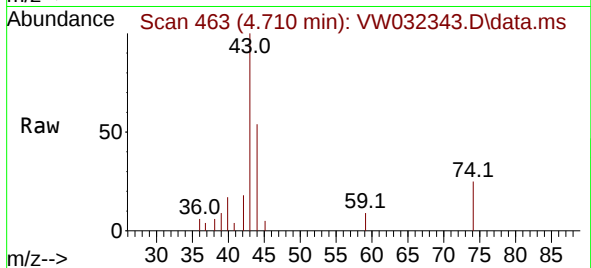




#18
Methyl Acetate
Concen: 2.181 ug/l
RT: 4.710 min Scan# 4
Delta R.T. 0.000 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

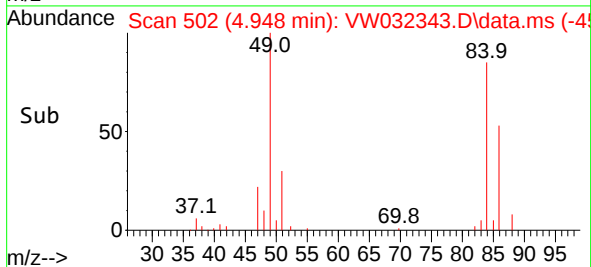
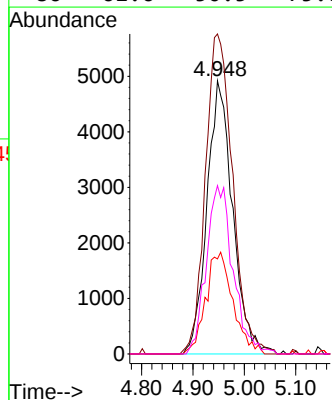
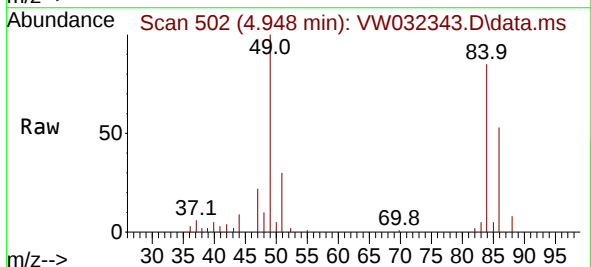
Instrument :
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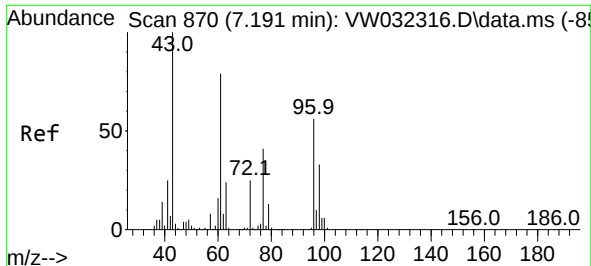
Tgt Ion: 43 Resp: 4375
Ion Ratio Lower Upper
43 100
74 28.1 20.2 30.4



#20
Methylene Chloride
Concen: 2.272 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

Tgt Ion: 84 Resp: 17099
Ion Ratio Lower Upper
84 100
49 117.1 92.2 138.4
51 34.8 31.0 46.6
86 61.6 50.5 75.7

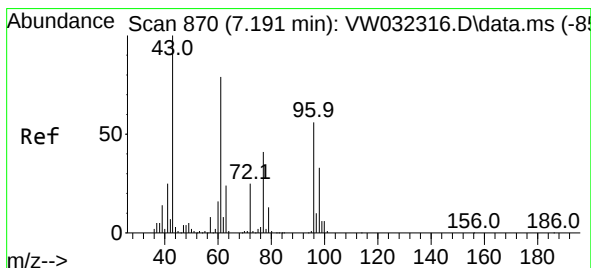
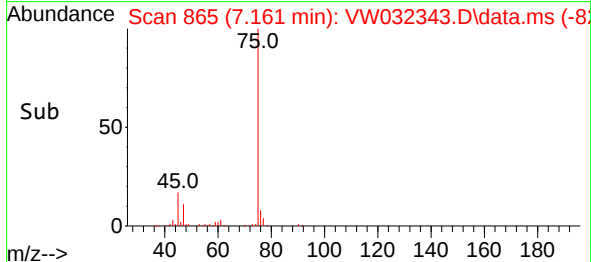
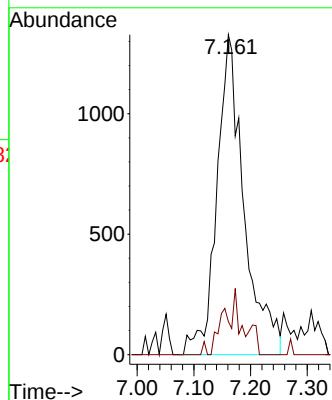
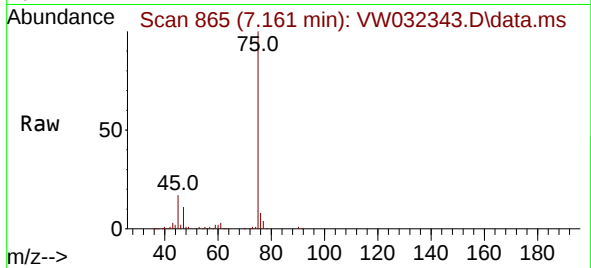




#25
2-Butanone
Concen: 4.638 ug/l
RT: 7.161 min Scan# 865
Delta R.T. -0.030 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

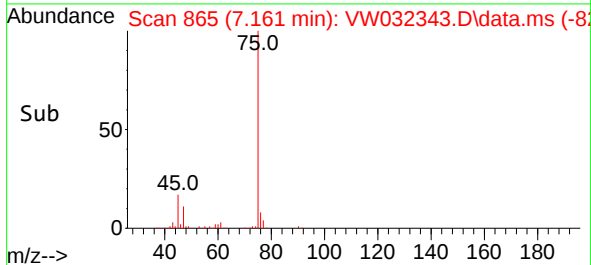
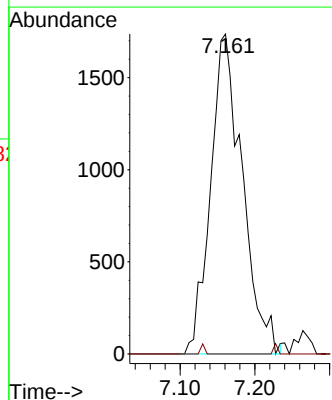
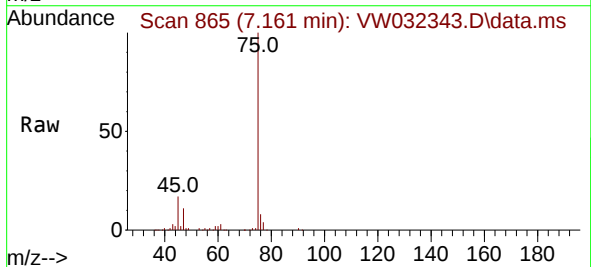
Instrument :
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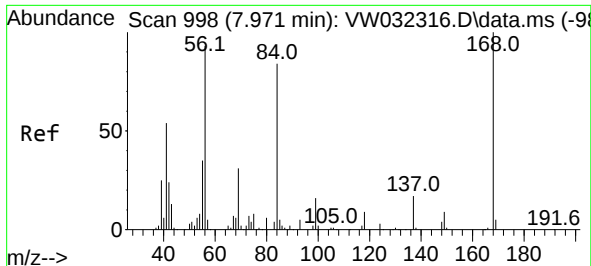
Tgt Ion: 43 Resp: 4424
Ion Ratio Lower Upper
43 100
72 10.3 21.4 32.2#



#26
2,2-Dichloropropane
Concen: 2.405 ug/l
RT: 7.161 min Scan# 865
Delta R.T. -0.024 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

Tgt Ion: 77 Resp: 5132
Ion Ratio Lower Upper
77 100
97 0.0 11.9 35.5#

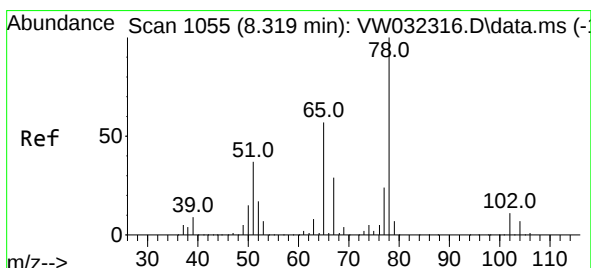
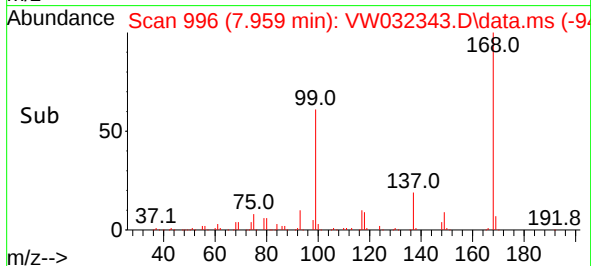
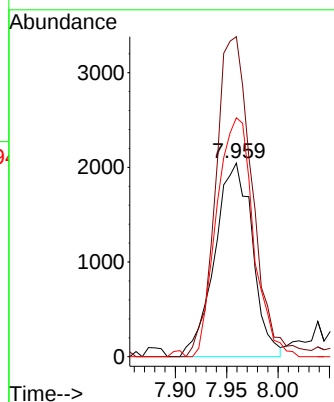
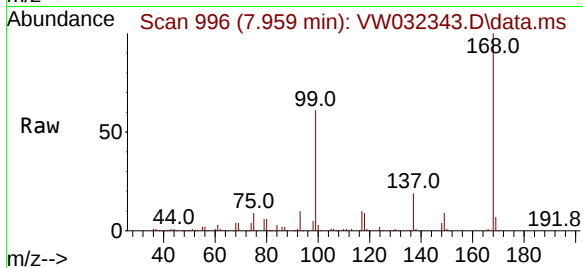




#31
Cyclohexane
Concen: 1.462 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

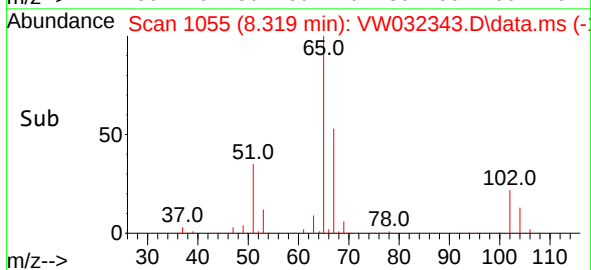
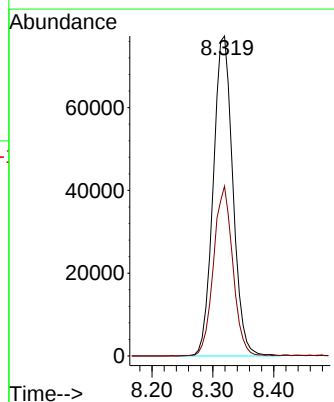
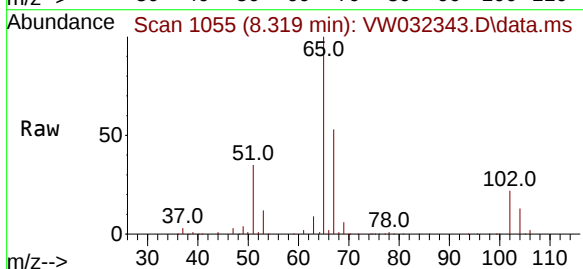
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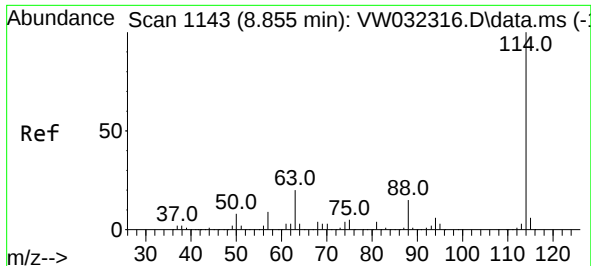
Tgt Ion: 56 Resp: 5207
Ion Ratio Lower Upper
56 100
69 165.3 27.7 41.5#
84 120.2 74.6 112.0#



#33
1,2-Dichloroethane-d4
Concen: 68.304 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

Tgt Ion: 65 Resp: 172766
Ion Ratio Lower Upper
65 100
67 52.2 0.0 99.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1143

Delta R.T. -0.006 min

Lab File: VW032343.D

Acq: 03 Oct 2025 11:10

Instrument :

MSVOA_W

ClientSampleId :

MOO-25-0282RE

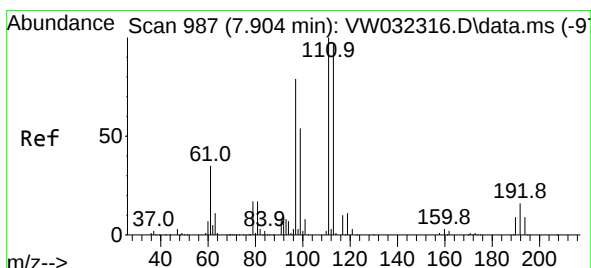
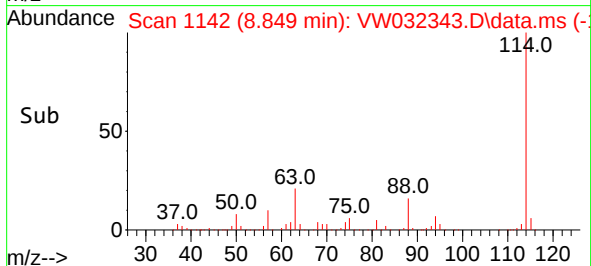
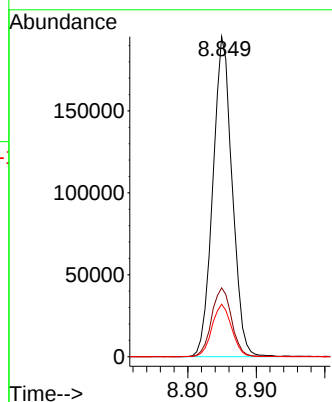
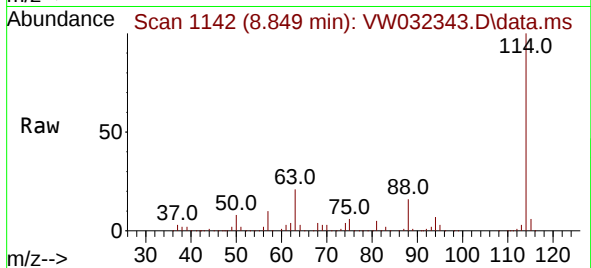
Tgt Ion:114 Resp: 382768

Ion Ratio Lower Upper

114 100

63 21.5 0.0 40.4

88 16.4 0.0 32.0



#35

Dibromofluoromethane

Concen: 57.158 ug/l

RT: 7.898 min Scan# 986

Delta R.T. -0.006 min

Lab File: VW032343.D

Acq: 03 Oct 2025 11:10

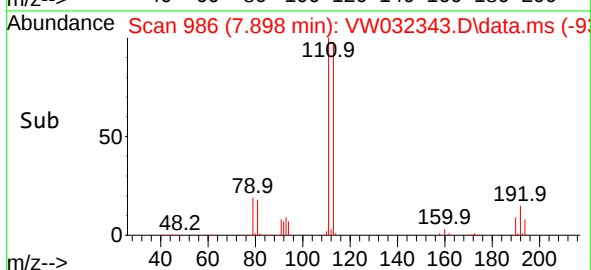
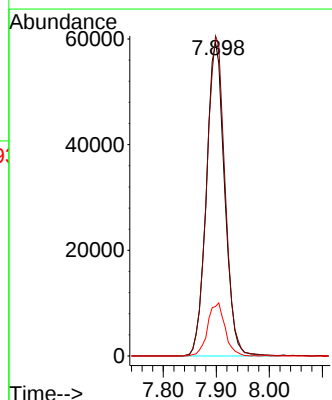
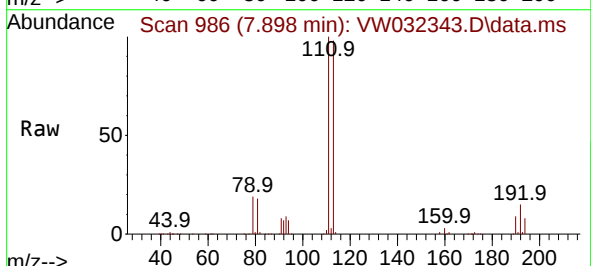
Tgt Ion:113 Resp: 141685

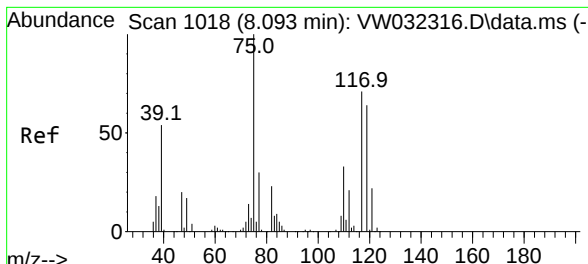
Ion Ratio Lower Upper

113 100

111 102.8 83.9 125.9

192 16.1 14.6 21.8

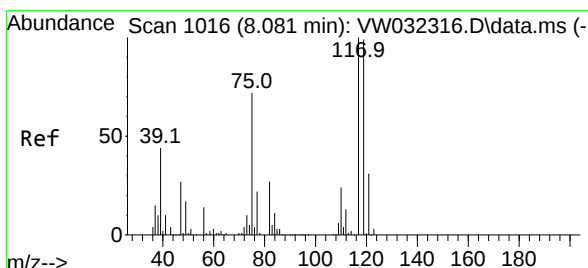
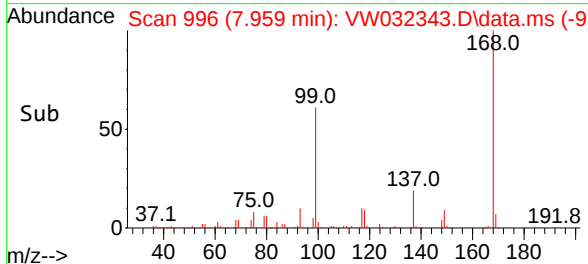
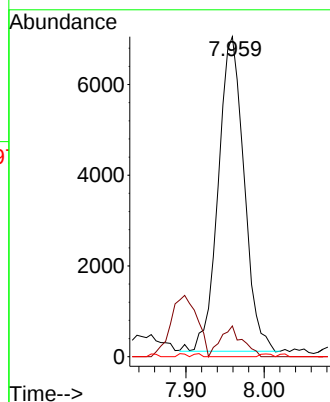
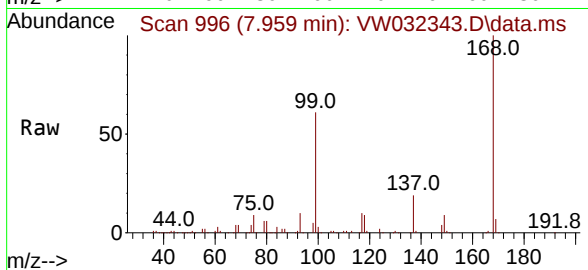




#36
 1,1-Dichloropropene
 Concen: 4.541 ug/l
 RT: 7.959 min Scan# 996
 Delta R.T. -0.140 min
 Lab File: VW032343.D
 Acq: 03 Oct 2025 11:10

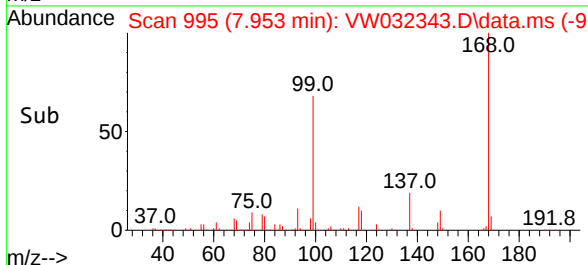
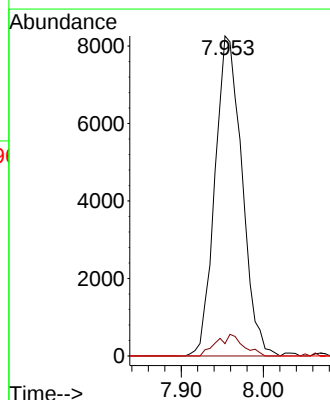
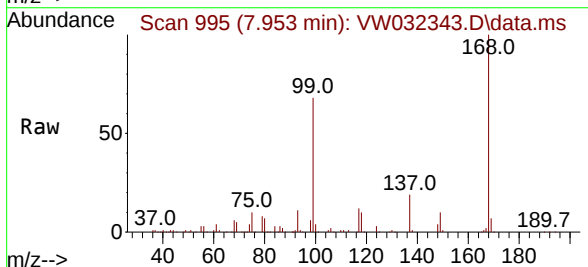
Instrument :
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 ClientSampleId :
 MOO-25-0282RE

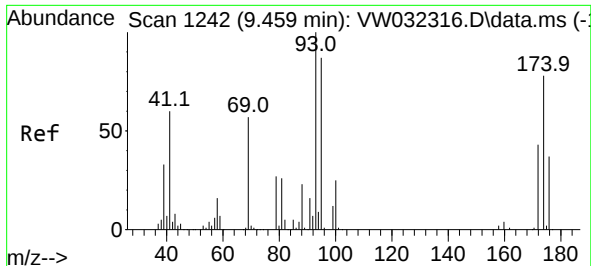
Tgt Ion: 75 Resp: 15885
 Ion Ratio Lower Upper
 75 100
 110 8.2 17.5 52.5#
 77 0.0 24.1 36.1#



#38
 Carbon Tetrachloride
 Concen: 5.730 ug/l
 RT: 7.953 min Scan# 995
 Delta R.T. -0.134 min
 Lab File: VW032343.D
 Acq: 03 Oct 2025 11:10

Tgt Ion: 117 Resp: 18865
 Ion Ratio Lower Upper
 117 100
 119 3.8 74.2 111.2#
 121 0.0 25.6 38.4#





#49

1,4-Dioxane

Concen: 1.869 ug/l

RT: 9.587 min Scan# 1263

Delta R.T. 0.128 min

Lab File: VW032343.D

Acq: 03 Oct 2025 11:10

Instrument :

MSVOA_W

ClientSampleId :

MOO-25-0282RE

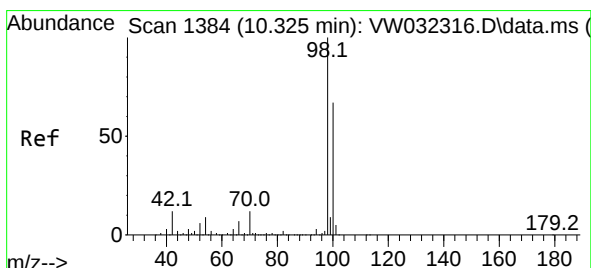
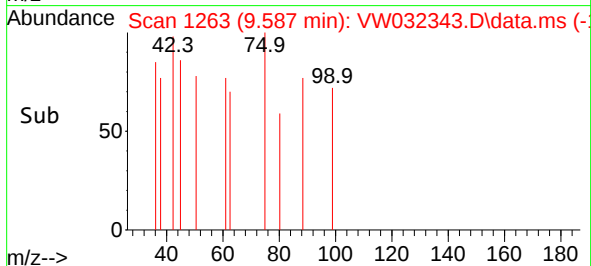
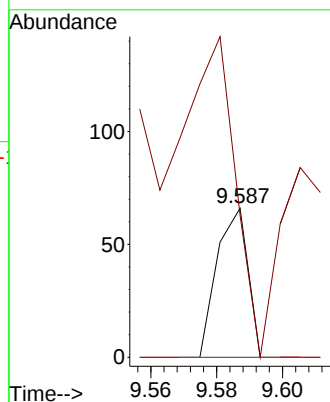
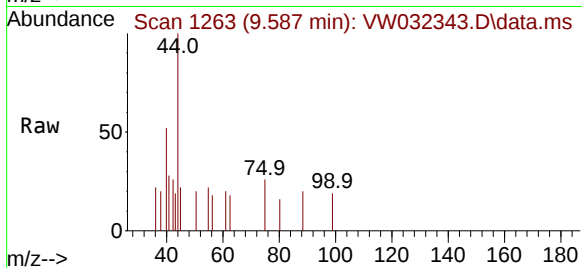
Tgt Ion: 88 Resp: 43

Ion Ratio Lower Upper

88 100

43 560.5 18.0 27.0#

58 0.0 55.4 83.0#



#50

Toluene-d8

Concen: 39.941 ug/l

RT: 10.325 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VW032343.D

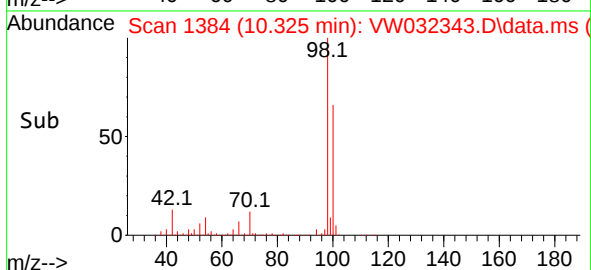
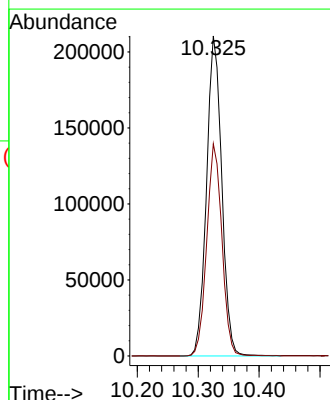
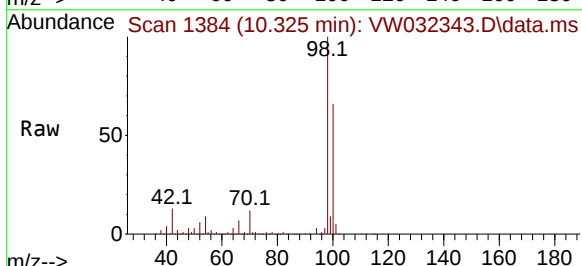
Acq: 03 Oct 2025 11:10

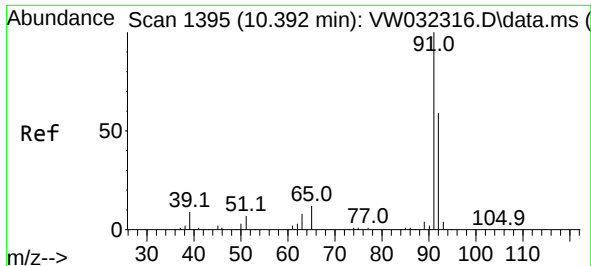
Tgt Ion: 98 Resp: 365416

Ion Ratio Lower Upper

98 100

100 66.1 51.4 77.2

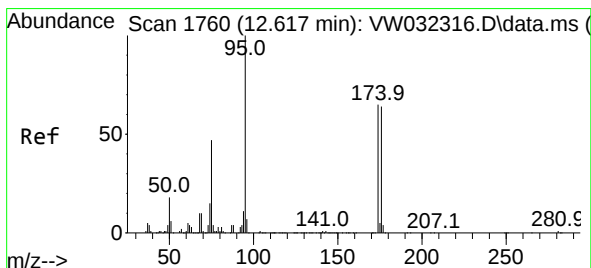
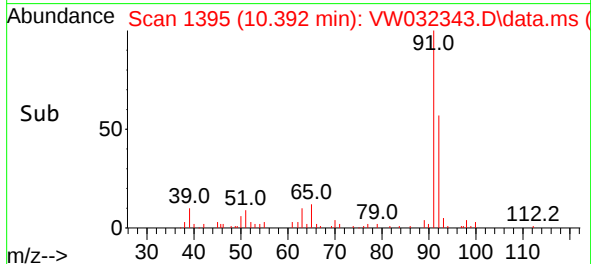
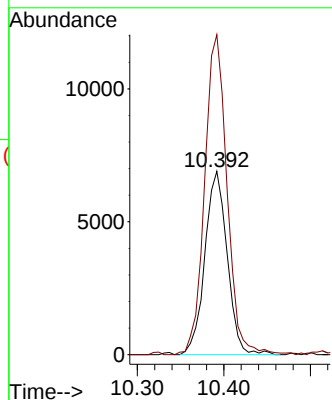
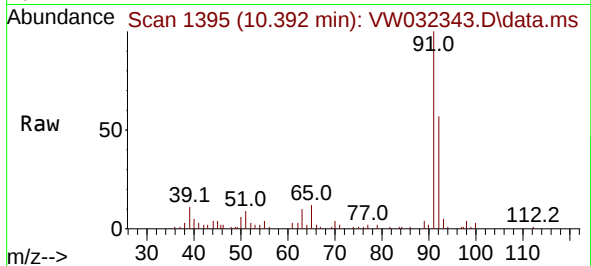




#52
Toluene
Concen: 1.812 ug/l
RT: 10.392 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

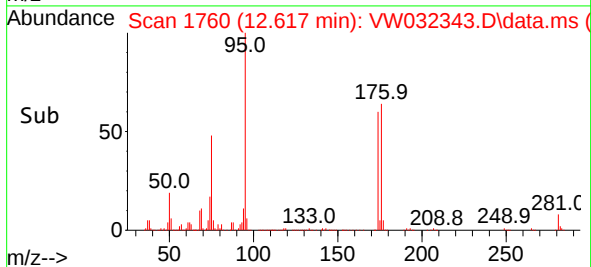
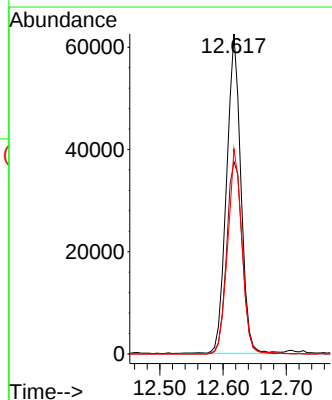
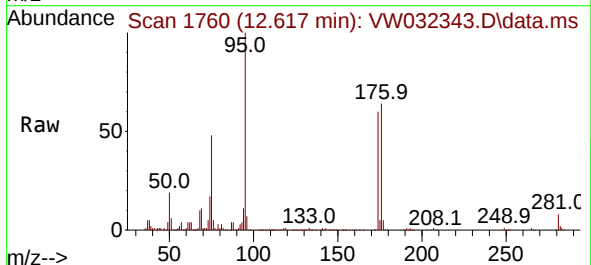
Instrument :
MSVOA_W
ClientSampleId :
MOO-25-0282RE

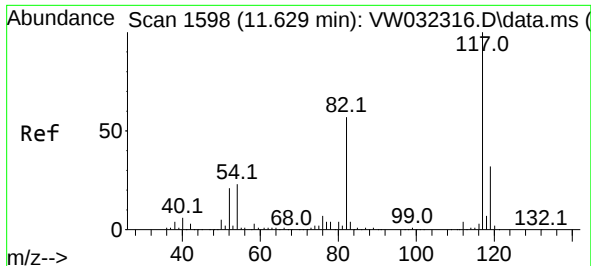
Tgt Ion: 92 Resp: 12372
Ion Ratio Lower Upper
92 100
91 175.0 137.5 206.3



#62
4-Bromofluorobenzene
Concen: 28.318 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

Tgt Ion: 95 Resp: 97923
Ion Ratio Lower Upper
95 100
174 65.9 0.0 145.6
176 63.9 0.0 140.8

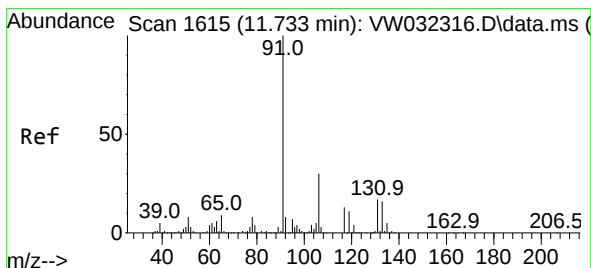
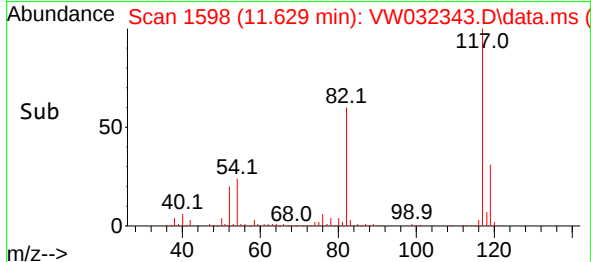
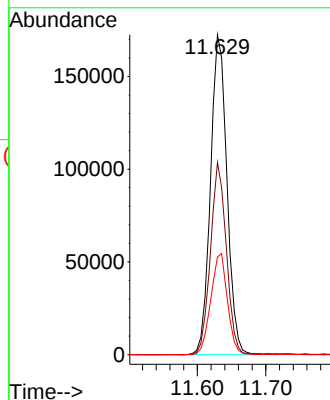
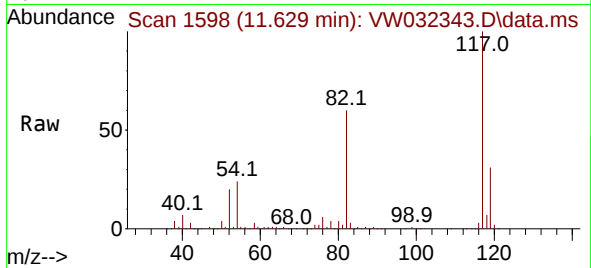




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

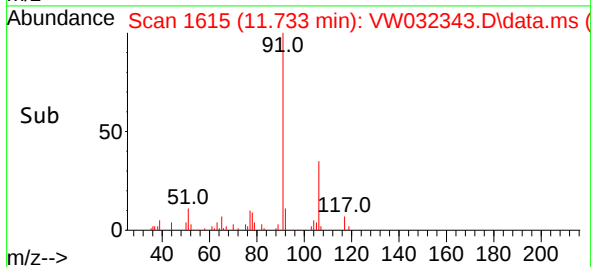
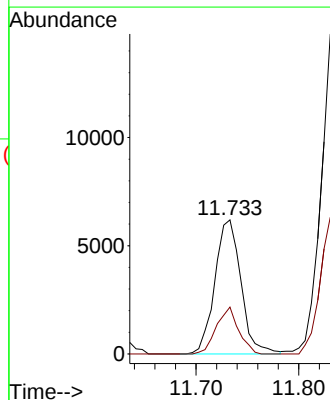
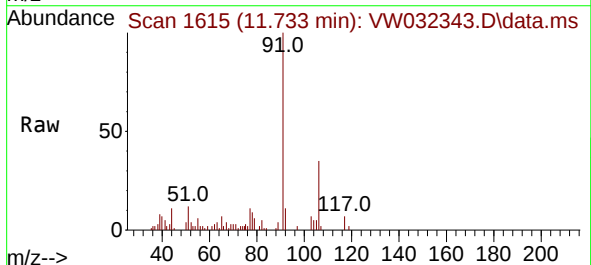
Instrument :
MSVOA_W
ClientSampleId :
MOO-25-0282RE

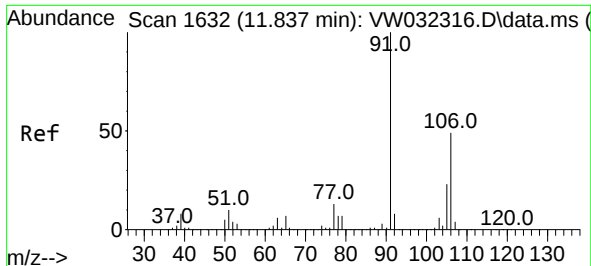
Tgt Ion:117 Resp: 288389
Ion Ratio Lower Upper
117 100
82 60.1 42.7 64.1
119 30.6 25.2 37.8



#67
Ethyl Benzene
Concen: 1.034 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.000 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

Tgt Ion: 91 Resp: 10937
Ion Ratio Lower Upper
91 100
106 35.0 25.3 37.9

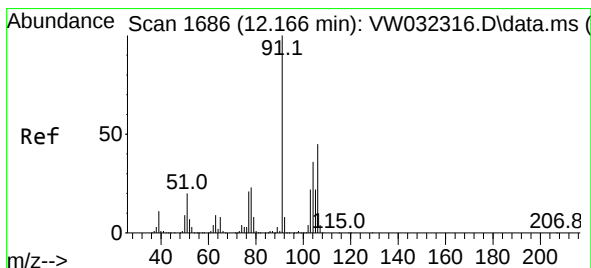
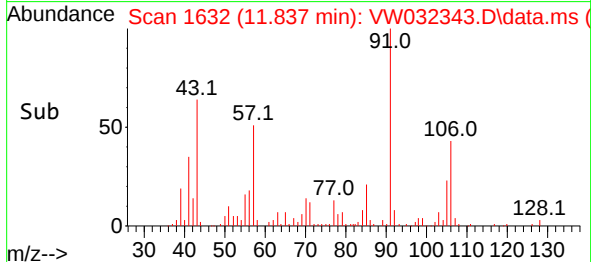
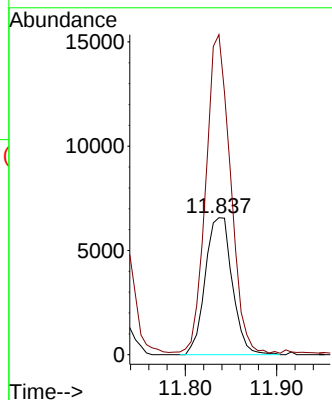
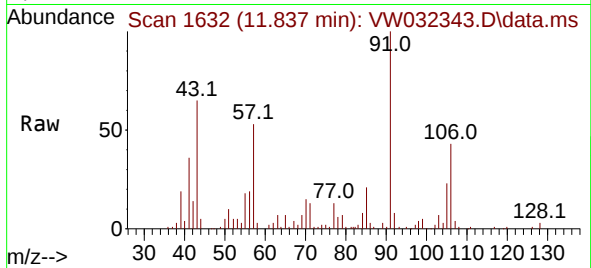




#68
m/p-Xylenes
Concen: 3.305 ug/l
RT: 11.837 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

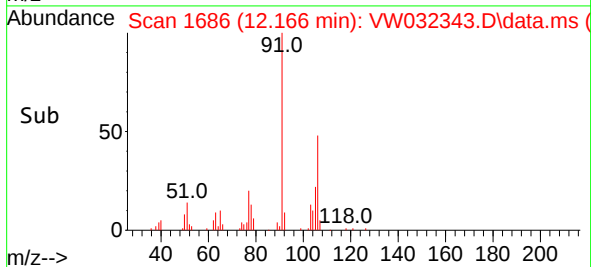
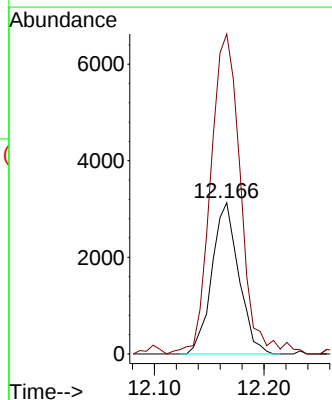
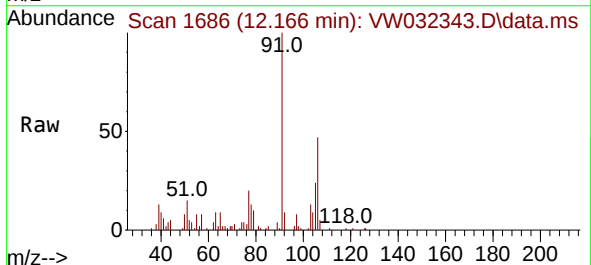
Instrument :
MSVOA_W
ClientSampleId :
MOO-25-0282RE

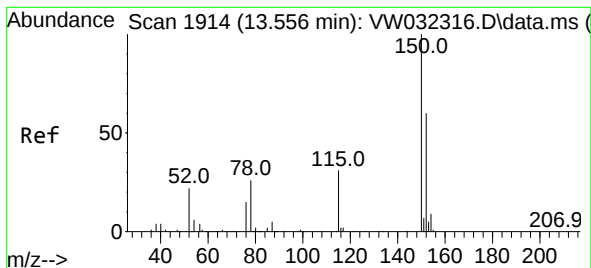
Tgt Ion:106 Resp: 13480
Ion Ratio Lower Upper
106 100
91 211.8 164.2 246.2



#69
o-Xylene
Concen: 1.395 ug/l
RT: 12.166 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VW032343.D
Acq: 03 Oct 2025 11:10

Tgt Ion:106 Resp: 5320
Ion Ratio Lower Upper
106 100
91 236.0 108.7 326.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW032343.D

Acq: 03 Oct 2025 11:10

Instrument :

MSVOA_W

ClientSampleId :

MOO-25-0282RE

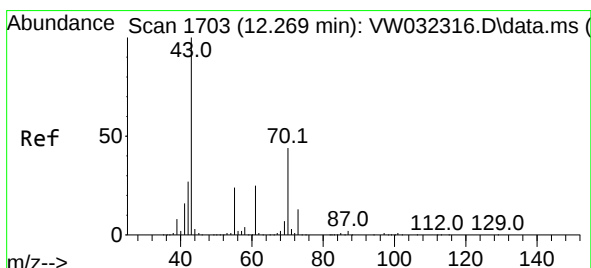
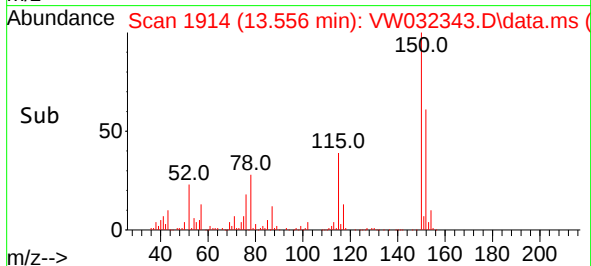
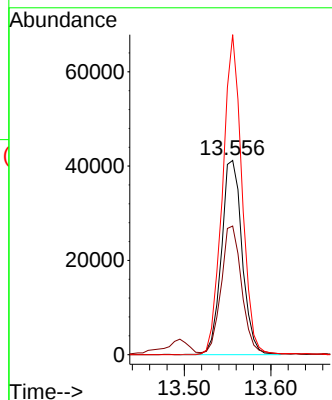
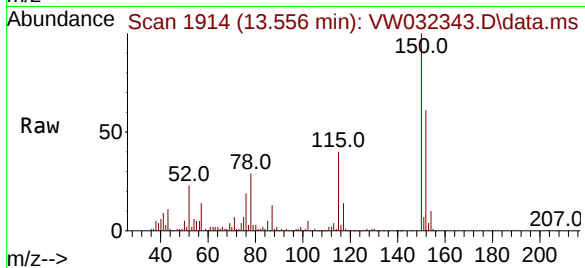
Tgt Ion:152 Resp: 68361

Ion Ratio Lower Upper

152 100

115 65.6 31.8 95.4

150 154.7 0.0 343.0



#74

N-ethyl acetate

Concen: 1.881 ug/l

RT: 12.245 min Scan# 1699

Delta R.T. -0.024 min

Lab File: VW032343.D

Acq: 03 Oct 2025 11:10

Tgt Ion: 43 Resp: 2807

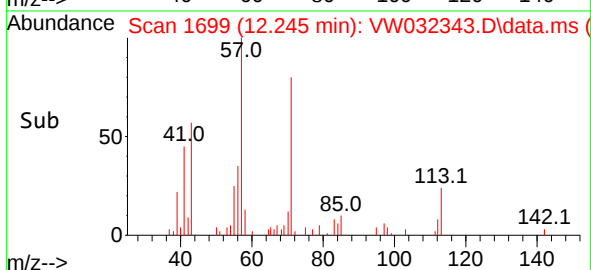
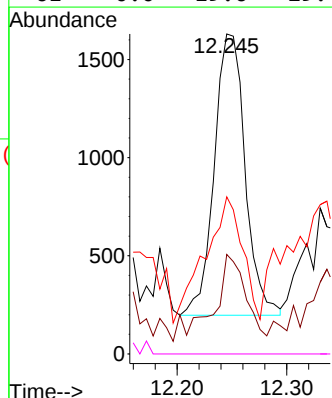
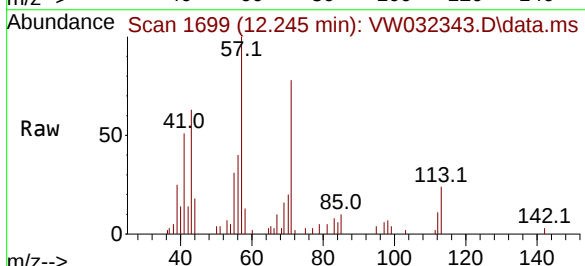
Ion Ratio Lower Upper

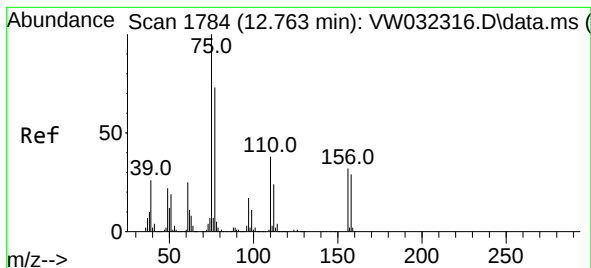
43 100

70 32.6 35.3 52.9#

55 54.8 19.9 29.9#

61 0.0 19.6 29.4#





#76

1,2,3-Trichloropropane

Concen: 55.798 ug/l

RT: 12.617 min Scan# 1

Delta R.T. -0.146 min

Lab File: VW032343.D

Acq: 03 Oct 2025 11:10

Instrument :

MSVOA_W

ClientSampleId :

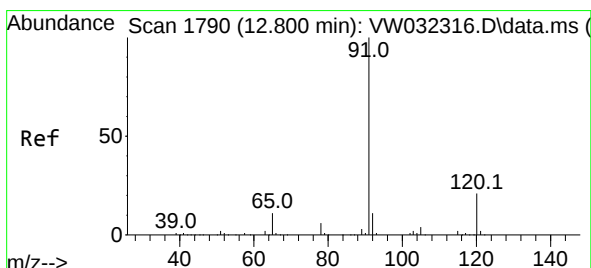
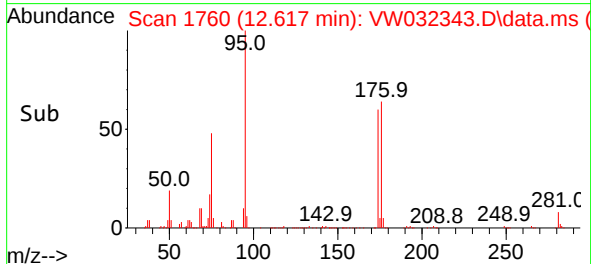
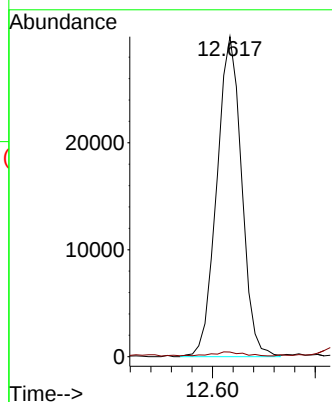
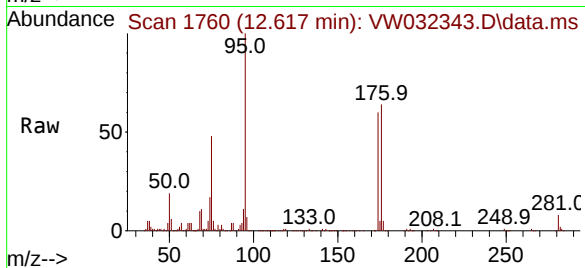
MOO-25-0282RE

Tgt Ion: 75 Resp: 50196

Ion Ratio Lower Upper

75 100

77 1.5 141.7 425.1#



#78

n-propylbenzene

Concen: 1.671 ug/l

RT: 12.806 min Scan# 1791

Delta R.T. 0.006 min

Lab File: VW032343.D

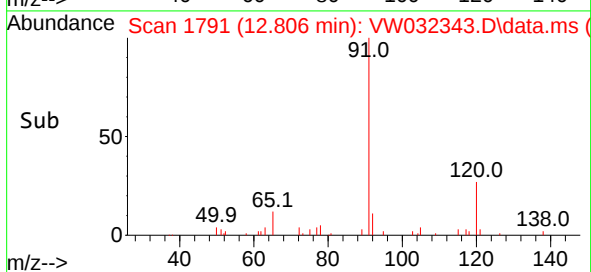
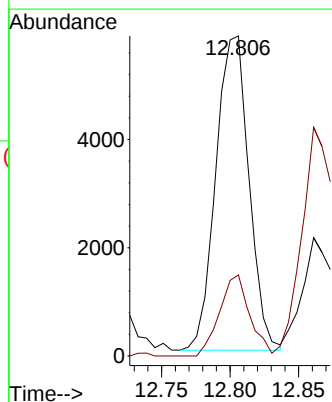
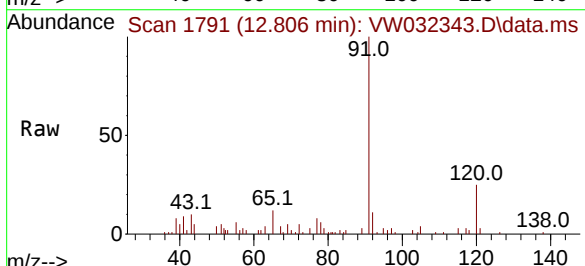
Acq: 03 Oct 2025 11:10

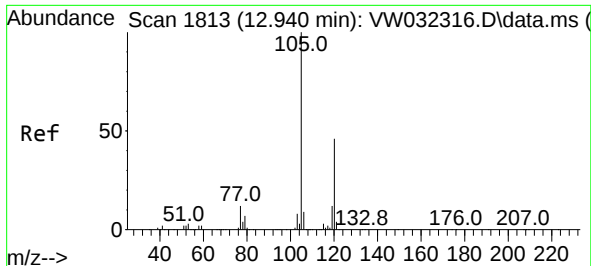
Tgt Ion: 91 Resp: 9764

Ion Ratio Lower Upper

91 100

120 23.5 11.8 35.4

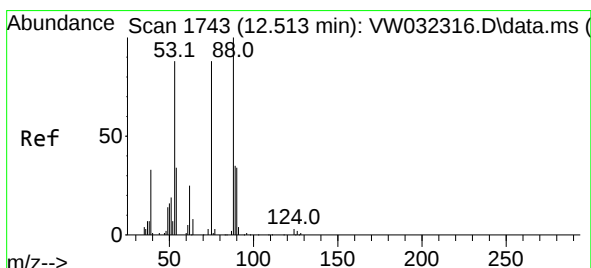
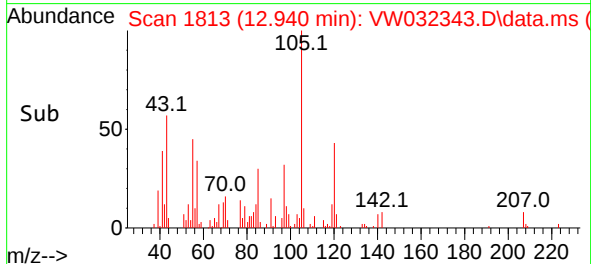
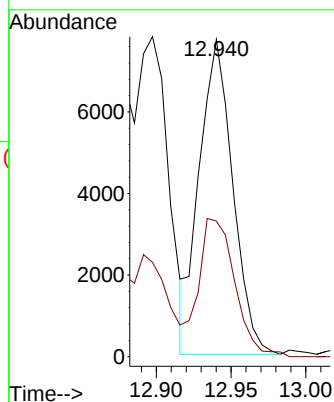
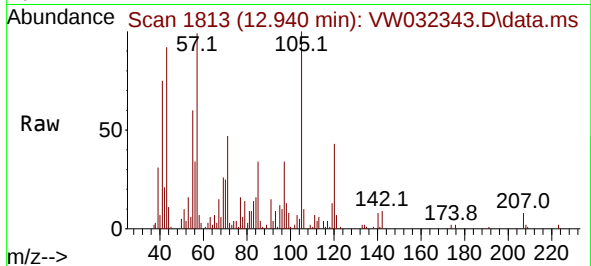




#80
 1,3,5-Trimethylbenzene
 Concen: 2.972 ug/l
 RT: 12.940 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VW032343.D
 Acq: 03 Oct 2025 11:10

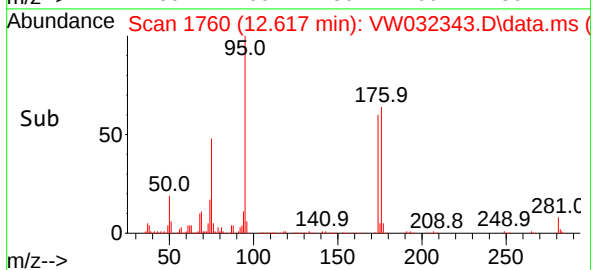
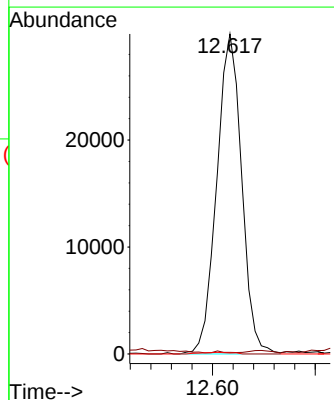
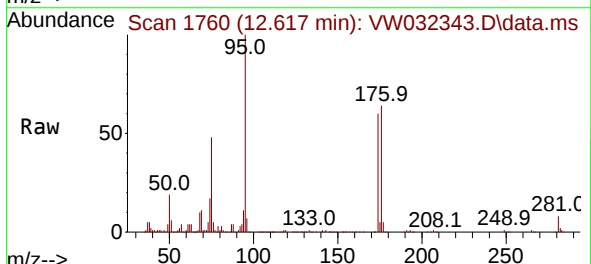
Instrument :
 MSVOA_W
 ClientSampleId :
 MOO-25-0282RE

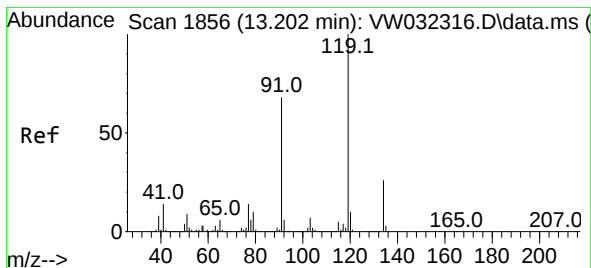
Tgt Ion:105 Resp: 12021
 Ion Ratio Lower Upper
 105 100
 120 47.7 24.8 74.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 141.353 ug/l
 RT: 12.617 min Scan# 1760
 Delta R.T. 0.104 min
 Lab File: VW032343.D
 Acq: 03 Oct 2025 11:10

Tgt Ion: 75 Resp: 50196
 Ion Ratio Lower Upper
 75 100
 53 0.2 91.0 136.6#
 89 0.6 39.4 59.2#





#83

tert-Butylbenzene

Concen: 1.539 ug/l

RT: 13.251 min Scan# 1864

Delta R.T. 0.049 min

Lab File: VW032343.D

Acq: 03 Oct 2025 11:10

Instrument :

MSVOA_W

ClientSampleId :

MOO-25-0282RE

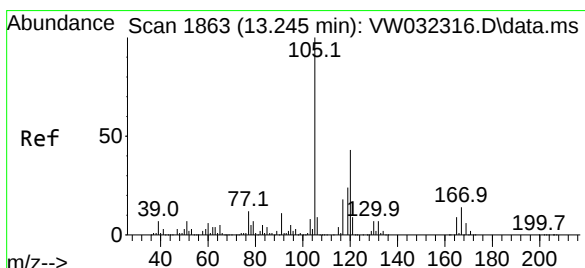
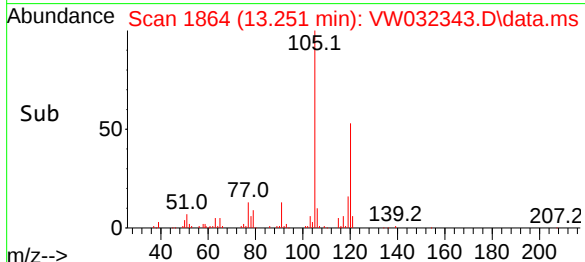
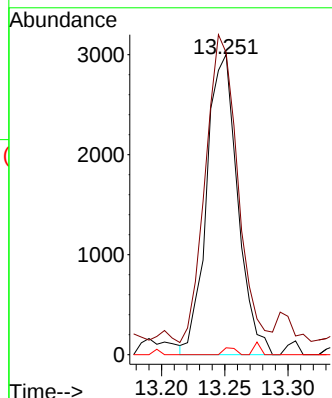
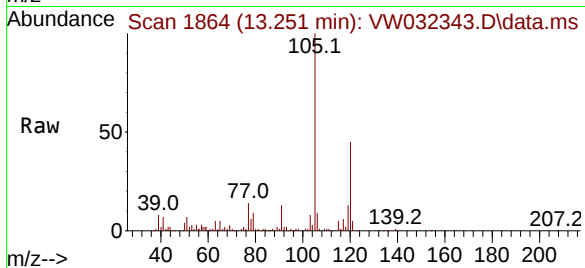
Tgt Ion:119 Resp: 5107

Ion Ratio Lower Upper

119 100

91 106.3 33.8 101.3#

134 0.0 12.5 37.5#



#84

1,2,4-Trimethylbenzene

Concen: 9.895 ug/l

RT: 13.245 min Scan# 1863

Delta R.T. 0.000 min

Lab File: VW032343.D

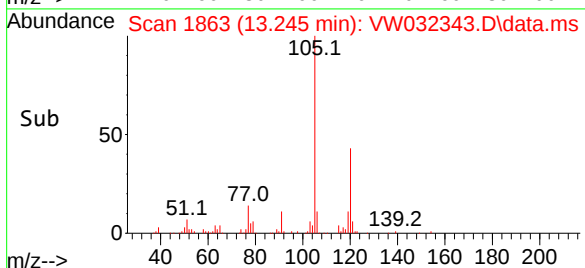
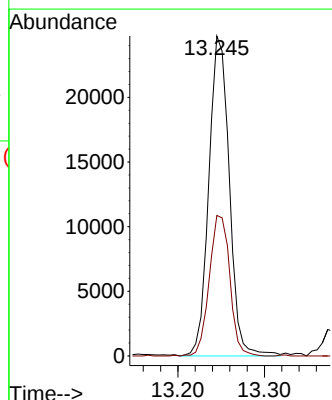
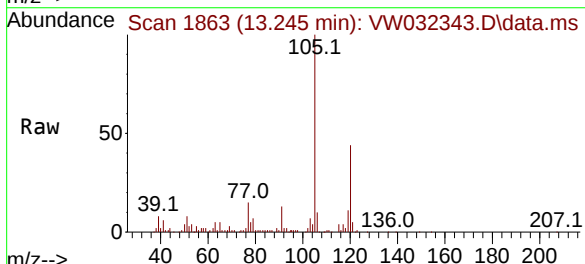
Acq: 03 Oct 2025 11:10

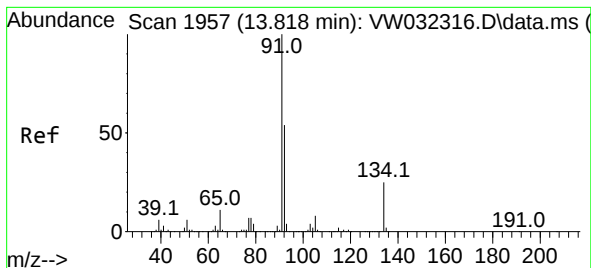
Tgt Ion:105 Resp: 40690

Ion Ratio Lower Upper

105 100

120 44.1 22.1 66.3





#89

n-Butylbenzene

Concen: 1.248 ug/l

RT: 13.818 min Scan# 1957

Delta R.T. 0.000 min

Lab File: VW032343.D

Acq: 03 Oct 2025 11:10

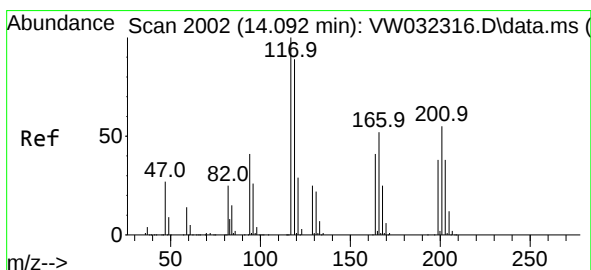
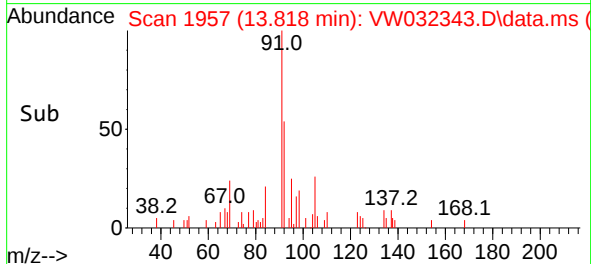
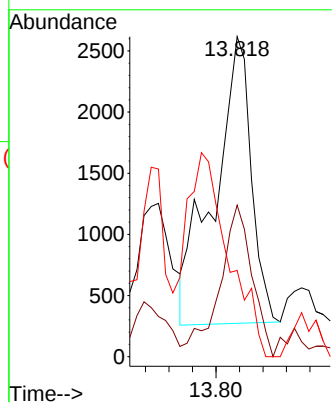
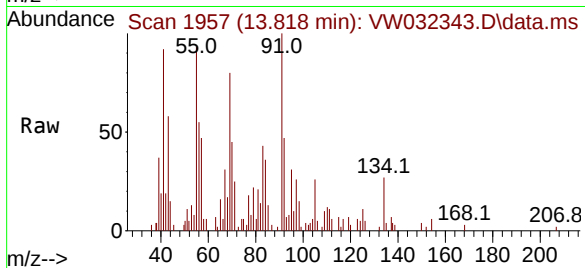
Instrument :

MSVOA_W

ClientSampleId :

MOO-25-0282RE

Tgt Ion:	91	Resp:	5126
Ion Ratio	Lower	Upper	
91	100		
92	46.5	27.0	81.0
134	0.0	13.1	39.3#



#90

Hexachloroethane

Concen: 1.048 ug/l

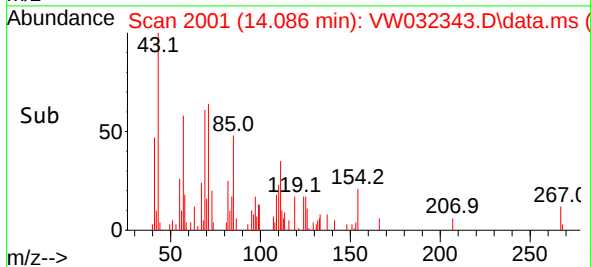
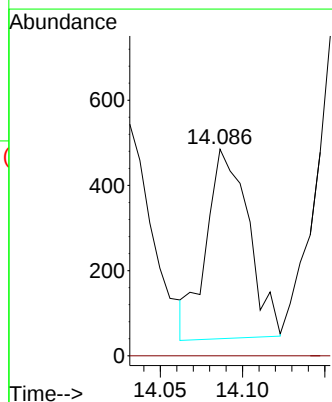
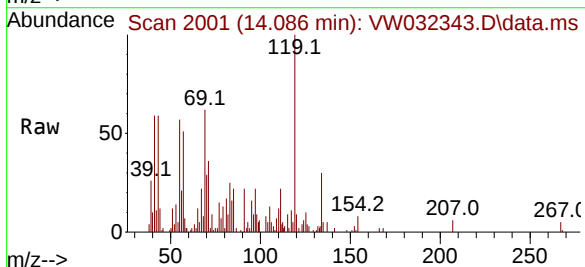
RT: 14.086 min Scan# 2001

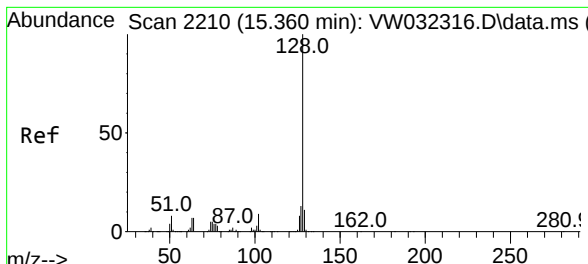
Delta R.T. 0.000 min

Lab File: VW032343.D

Acq: 03 Oct 2025 11:10

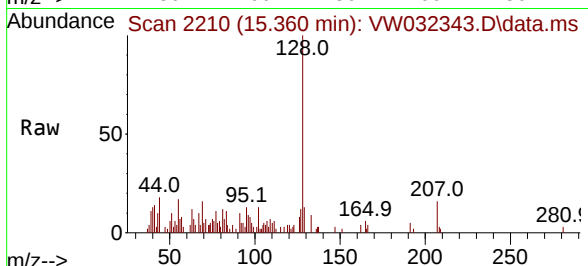
Tgt Ion:	117	Resp:	790
Ion Ratio	Lower	Upper	
117	100		
201	0.0	32.8	98.4#





#95
 Naphthalene
 Concen: 1.811 ug/l
 RT: 15.360 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VW032343.D
 Acq: 03 Oct 2025 11:10

Instrument :
 MSVOA_W
 ClientSampleId :
 MOO-25-0282RE



Tgt Ion:	128	Resp:	5381
Ion	Ratio	Lower	Upper
128	100		
127	17.4	10.6	16.0#
129	15.1	8.4	12.6#

